CLAIMS

What is claimed is:

- A fibrous material comprised of a binder fiber adhered to a functional fiber,
 wherein the binder fiber is a staple bicomponent fiber oriented in substantially the same direction as the functional fiber.
 - 2. The material according to claim 1, wherein the functional fiber is a staple or continuous fiber.
 - 3. The material according to claim 1, wherein the binder fiber is a bicomponent fiber made of the following pairs of polymers: polypropylene/polyethylene terephthalate (PET); polyethylene/PET; polypropylene/Nylon-6; Nylon-6/PET; copolyester/PET; copolyester/Nylon-6; copolyester/Nylon-6,6; poly-4-methyl-1-pentene/Nylon-6; poly-4-methyl-1-pentene/Nylon-6,6; PET/polyethylene naphthalate (PEN); Nylon-6,6/poly-1,4-cyclohexanedimethyl (PCT); polypropylene/polybutylene terephthalate (PBT); Nylon-6/co-polyamide; polylactic acid/polystyrene; polyurethane/acetal; or soluble copolyester/polyethylene.
 - 4. The material according to claim 1, wherein the functional fiber is a Nylon, cellulose-based material, polyvinyl alcohol, superabsorbent fiber, carbon fiber, glass fiber, ceramic fiber, or acrylic fiber.
- 5. The material according to claim 1, wherein said material has a density of from about 0.15 g/cm³ to about 0.8 g/cm³.
 - 6. The material according to claim 5, wherein the density is from about 0.2 g/cm³ to about 0.65 g/cm³.
- 7. The material according to claim 6, wherein the density is from about 0.25 g/cm³ to about 0.5 g/cm³.
 - 8. A wicking material comprising a binder fiber adhered to a hydrophillic functional fiber, wherein the binder fiber is a staple monocomponent or bicomponent fiber oriented in substantially the same direction as the functional fiber.

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- 9. The material according to claim 8, wherein the binder fiber is a polyethylene/PET, polypropylene/PET, or coPET/PET bicomponent fiber.
- 5 10. The material according to claim 8, wherein the material wicks water at a rate of from about 0.05 to about 1 inch/second.
 - 11. The material according to claim 10, wherein the rate is from about 0.1 to about 0.6 inch/second.
 - 12. The material according to claim 11, wherein the rate is from about 0.2 to about 0.4 inch/second.
 - 13. The material according to claim 8, wherein said material comprises from about 1 to about 98 weight percent binder fiber.
 - 14. The material according to claim 13, wherein the material comprises from about 5 to about 95 weight percent binder fiber.
 - 15. The material according to claim 14, wherein the material comprises from about 5 to about 50 weight percent binder fiber.
 - 16. The material according to claim 8, wherein said material comprises from about 5 to about 70 weight percent functional fiber.
 - 17. The material according to claim 16 wherein the material comprises from about 5 to about 55 weight percent functional fiber.
- 18. The material according to claim 17 wherein the material comprises from about 10 to about 40 weight percent functional fiber.
 - 19. A self-sealing material comprising a binder fiber adhered to a superabsorbent fiber, wherein the binder fiber is a staple monocomponent or bicomponent fiber oriented in substantially the same direction as the superabsorbent fiber.

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- 20. The material according to claim 19, wherein the bicomponent binder fiber is polyethylene/PET, polypropylene/PET, or coPET/PET.
- 21. The material according to claim 19, wherein the superabsorbent fiber is polyacrylic acid.
 - 22. The material according to claim 19, wherein said material comprises from about 30 to about 95 weight percent binder fiber.
- 10 23. The material according to claim 22, wherein the material comprises from about 45 to about 95 weight percent binder fiber.
 - 24. The material according to claim 23, wherein the material comprises from about 60 to about 90 weight percent binder fiber.
 - 25. The material according to claim 19, wherein the material comprises from about 5 to about 70 weight percent functional fiber.
 - 26. The material according to claim 25, wherein the material comprises from about 5 to about 55 weight percent functional fiber.
 - 27. The material according to claim 26, wherein the material comprises from about 10 to about 40 weight percent functional fiber.
- 28. A bioabsorbent material comprised of a binder fiber adhered to a bioabsorbent fiber, wherein the binder fiber is a staple monocomponent or bicomponent fiber oriented in substantially the same direction as the bioabsorbent fiber.
- 29. The material according to claim 28, wherein the binder fiber is PE/PP 30 polyethylene/PET, polypropylene/PET, or coPET/PET bicomponent fiber.
 - 30. The material according to claim 28 wherein the bioabsorbent fiber is glass fiber, ceramic fiber, or hydrophilic Nylon.

- 31. The material according to claim 28, wherein said material comprises from about 30 to about 95 weight percent binder fiber.
- 32. The material according to claim 31, wherein the material comprises from about 45 to about 95 weight percent binder fiber.
 - 33. The material according to claim 32, wherein the material comprises from about 60 to about 90 weight percent binder fiber.
- 10 34. The material according to claim 28, wherein the material comprises from about 5 to about 70 weight percent functional fiber.
 - 35. The material according to claim 34, wherein the material comprises from about 5 to about 55 weight percent functional fiber.
 - 36. The material according to claim 35, wherein said material comprises from about 10 to about 40 weight percent functional fiber.